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Help

Logout

Main Menu

Search Form

Result Set

ShowS Numbers

Edit S Numbers

First Hit

Previous Document

Next Document

Full

Title

Citation

Front

Review

Classification

Date

Reference

Claims

KWC

## Document Number 1

Entry 1 of 1

File: JPAB

Dec 21, 1993

PUB-NO: JP405339148A

DOCUMENT-IDENTIFIER: JP 05339148 A

TITLE: SUBSTANCE PENETRATING BLOOD-BRAIN BARRIER

PUBN-DATE: December 21, 1993

INVENTOR-INFORMATION:

NAME

ALBERT, T KNIGHT

INT-CL (IPC): A61K 9/00; A61K 31/14; A61K 31/195; A61K 31/22; A61K 47/16; A61K 47/26

ABSTRACT:

PURPOSE: To obtain a substance having the ability to carry out at least partial penetration through a blood-brain barrier, further penetrate other substances through the blood-brain barrier and transport the other substances.

CONSTITUTION: This base substance contains (1) any one or more pure sugars or pure aminosugars selected from the group consisting of the following: mesoerythritol, xylitol, D-(+)-galactose, D-(+)-lactose, L-(-)-fructose, D-(+)-glucose, D-(+)arabinose, D-(-)-arabinose, D-(+)-maltose, etc., or D-(+)-glucosamine, D-mannosamine and D-galactosamine in combination with (2) any one or more amino acids selected from the group consisting of the following: glutamine, lysine, arginine, asparagine, aspartic acid, cysteine, glutamic acid, glycine, histidine, leucine, methionine, phenylalanine, proline, serine, threonine, tryptophan, tyrosine, valine and taurine.

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Main Menu

Search Form

Result Set

ShowS Numbers

Edit S Numbers

First Hit

Previous Document

Next Document

Full

Title

Citation

Front

Review

Classification

Date

Reference

Claims

KWC

Help

Logout

**WEST**[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Result Set](#)[ShowS Numbers](#)[Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KMC](#)**Document Number 1**

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